

What is Claimed is

Patent Claims

1. Process for the compensation of losses of a signal (S) along a transmission path between at least one sending point (6) and one receiving point (4) in a room (1), wherein the transmission path of the signal (S) is determined and, on the basis of the transmission path, at least one parameter of an associated transmission function is ascertained, and wherein the signal level for a given position (P1 through P4) along the transmission path is controlled using the ascertained parameter.
2. Process according to claim 1, wherein the transmission path is an acoustical path (A1 through A2) and/or an electrical path (E1 through E2) of the signal (S)
3. Process according to claim 1 or 2, wherein the attenuation of the signal (S) between the sending point (6) and the receiving point (4) is determined as the parameter.
4. Process according to claim 3, wherein upon exceeding a maximum value of attenuation, the signal level for a given position (P1 through P4) is amplified.
5. Process according to claim 3, wherein upon undershooting a minimal value of attenuation, the signal level for the given position (P1 through P4) is attenuated.
6. Process according to claim 1 or 2, wherein the propagation time of the signal (S) along the acoustical path (A1 through A2) between the sending point (6) and receiving point (4) is determined as the parameter.

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- B*
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7. Process according to claim 6, wherein the signal (S) is delayed along the electrical path in dependence upon the propagation time of the signal (S).
8. Process according to claim 1 or 2, wherein acoustical or electrical echoes between the sending point (6) and the receiving point (4) are determined as the parameter.
9. Process according to claim 1 or 2, wherein an interference signal between the sending point (6) and the receiving point (4) is determined as the parameter.
10. Process according to one of claims 1 through 9, wherein the values of the parameter or of each parameter for at least one given transmission path is stored and used to control the signal level.
11. Process according to claim 10, wherein the values of the parameter or of each parameter is stored in the form of an attenuation matrix.
12. Device for the compensation of losses of a signal (S) along a transmission path between at least one sending point (6) and at least one receiving point (4) in a room, wherein a controller (14) is provided for the determination of the transmission path as well as for the detection of at least one parameter of an associated transmission function, and wherein the controller is connected to at least one level meter (W1 through W2) that is arranged in combination with at least one echo canceller (K1 through K2) between the sending point (6) and the receiving point (4) for the control of the signal level at a given position (P1 through P4) along the transmission path.

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13. Device according to claim 12, wherein an attenuation element (10) is provided between the sending point (6) and the receiving point (4).
 14. Device according to claim 12 or 13, wherein a delay element (12) is provided between the sending point (6) and the receiving point (4).
 15. Device according to one of claims 12 through 14, wherein the echo canceller (K1 through K2) is a digital filter, particularly an FIR-filter.
 16. Device according to one of the claims 12 through 14, wherein at least one microphone (M1 through M4) serves as a sender at the sending point (6).
 17. Device according to one of the claims 12 through 16, wherein at least one loudspeaker (L1 through L4) serves as a receiver at the receiving point (4).
 18. Use of an device for the compensation of losses of a signal (S) along a transmission path according to one of the claims 12 through 17 in a communications installation (2) with at least one microphone (M1 through M4) and one loudspeaker (L1 through L4) in a vehicle.